

Rough sizes are determined by slightly increasing the finish sizes. Using rough sizes allows for the waste in cutting and shaping. Remember, it is always better to have too much stock than not enough. However, you want just a little too much. Ordering more lumber than you need will increase the cost of your project. Use the following general rules to determine rough sizes.

- Add 1/2 inch (13mm) to 1 inch (25 mm) to the length of each part.
- Add 1/4 inch (6 mm) to 3/8 inch (9 mm) to the width of each part.
- Specify standard lumber 1/16 inch (2 mm) to 3/16 inch (5 mm) thicker than the thickness of each part.
- Small parts do not need as much extra material as large parts.

Rough sizes are not always included on a bill of materials. If yours does not include rough sizes, be sure to make the additions before ordering your lumber. This step is important because ordering too little lumber will delay your project's construction.

Measuring Lumber. Lumber is measured and sold by the board foot, square foot, and

- size and amount of each material.
- cost of each material.

Not all bills of materials are this detailed. Some are called "materials list," or simply "materials." If you are using a bill of materials that is not complete, add the necessary information. Use the working drawings as a guide to fill out the bill of materials. The working drawings show the dimensions of each part. They also help you determine the kinds of materials needed. Chapter 4, "Material Selection," will also help you choose materials. You may need to do some checking to find out the material costs. Costs vary depending on where you buy the materials.

When the bill of materials is completed, you should know how much lumber to buy and how much it will cost. You should also know what part of the project each material will be used for.

Allowing for Waste. There is always waste when you cut and shape wood. You must allow for this waste when you plan your lumber needs. This is normally done by slightly increasing the finish sizes of each project part.

Finish sizes are the sizes given on the working drawing. Each part must be cut to its finish size for the project to fit together properly.

Fig. 3-11. A complete bill of materials for the fern stand pictured in Fig. 3-10 would contain these items.

Name: Janet Brown		Starting date: Sept. 20		Project: Fern Stand		Completion date: Dec. 12	
No. of parts	Description	Finish size	Rough size	Material	Sq. Ft. or Bd. Ft.	Unit cost	Total cost
1	Top	3/4" x 9" DIA	1" x 9-1/2" x 9-1/2"	Cherry	.63	1.60	1.01
1	Base	1-1/4" x 10" DIA	1-1/2" x 10-1/2" x 10-1/2"	Cherry	1.15	1.65	1.90
2	Cleats	3/4" x 3/4" x 5"	1" x 7/8" x 5-1/2"	Cherry	.04	1.60	.06
1	Spindle	2" x 2" x 20-1/4"	2-1/8" x 2-1/8" x 20-3/4"	Cherry	.65	1.70	1.10
1	Wedge	1/8" x 1" x 1-1/4"	1/8" x 1-1/16" x 1-5/16"	Walnut	Scrap	—	—
Other Materials							
No.	Description	Size	Unit cost	Total cost			
8	Screws	1-1/2" x 8" Flathead	.10	.80			
Finish				.50			
				Total Cost \$5.37			